

CLAIMS

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03 I claim:

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05 1. A Serial Hard Disk Drive Selector mounted permanently within a single
06
07 computer system that couples one of a plurality of serial hard disk drives
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09 connected to the computer system through the Serial Hard Disk Drive Selector
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11 to the serial hard disk drive host adapter and a computer system power source
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13 so that the coupled serial hard disk drive occupies a single, logical serial hard
14
15 disk drive position and uncouples the other serial hard disk drives of this
16
17 plurality of serial hard disk drives during a single computer system use
18
19 session, this coupling and uncoupling occurring prior to booting the computer
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21 system and comprising; three component parts, a master control component, a
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23 power control component, and an address/command and control/data control
24
25 component; wherein the components are multi-pole, multi-throw switching
26
27 elements with predetermined numbers of poles to switch all circuits in each
28
29 peripheral bus segment of the computer system they are used in and with
30
31 predetermined number of throws to control the selection of the desired serial
32
33 hard disk drive attached to the Serial Hard Disk Drive Selector; the three
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35 components are configurable;

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37 a) the master control component is accessible from the outside of the
38
39 computer system's case by the user and synchronously controls the operation
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41 of the power control and the address/command and control/data control
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43 components to close their circuits to the user selected serial hard disk drive to
44
45 place the serial hard disk drive in an operational mode and open their circuits

01 to any not-selected serial hard disk drives from the serial hard disk drives
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03 connected to the Serial Hard Disk Drive Selector to place the not-selected
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05 serial hard disk drives in non-operational mode; wherein the master control
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07 component is operated by a switch that has a removable key as a security
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09 feature;
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11 b) the power control component is coupled between the computer system's
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13 electrical supply bus and the power supply terminal of each of the plurality
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15 of the serial hard disk drives; and closes the circuit from the computer
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17 system's power supply to the user selected serial hard disk drive and opens
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19 the circuits to any not-selected serial hard disk drives from the plurality of
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21 the serial hard disk drives connected to the Serial Hard Disk Drive Selector;
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23 c) the address/command/data control component is coupled between the
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25 computer system's serial hard disk drive host adapter and the plurality of
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27 the serial hard disk drives and closes the address/command/data carrying
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29 circuits between the host adapter and the user selected serial hard disk drive
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31 and opens the address/command/data carrying circuits between the host
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33 adapter to the not-selected serial hard disk drives connected to the Serial
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35 Hard Disk Drive Selector.
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